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21 Using DHCP with computers that move0

Charles E. Perkins, Kevin Luo

March 1995 **Wireless Networks**, Volume 1 Issue 3

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings

The Dynamic Host Configuration Protocol (DHCP) was designed to allow the frequent allocation of resources and configuration information useful to Internet hosts at boot time, including Internet addresses in particular. It turns out that getting a new Internet address is crucial to the problem of enabling the movement of Internet hosts from one network to another, and thus DHCP is quite relevant to the problem of providing seamless, transparent mobility to Internet hosts. We decided to inves ...

22 Applying model-based techniques to the development of UIs for mobile computers

Jacob Eisenstein, Jean Vanderdonckt, Angel Puerta

January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**

Full text available: pdf(463.24 KB) Additional Information: full citation, abstract, references, citings, index terms

Mobile computing poses a series of unique challenges for user interface design and development: user interfaces must now accommodate the capabilities of various access devices and be suitable for different contexts of use, while preserving consistency and usability. We propose a set of techniques that will aid UI designers who are working in the domain of mobile computing. These techniques will allow designers to build UIs across several platforms, while respecting the unique constraints po ...

Keywords: adaptive user-interface, mobile computing, plastic user-interface, platform constraints, task model, user-interface modeling

23 MFS: a mobile file system using generic system services

Maria-Teresa Segarra, Françoise André

February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

Full text available: pdf(228.49 KB) Additional Information: full citation, references, index terms

Keywords: NFS, distributed file systems, mobile computing, wireless networks

24 A framework for the transmission of streaming media to mobile devices
Kevin Curran, Gerard Parr
January 2002 **International Journal of Network Management**, Volume 12 Issue 1

Full text available: pdf(302.57 KB) Additional Information: full citation, abstract, references, index terms

One interesting problem is the delay imposed upon mobile receivers when switching between wireless cells. We provide a solution to this in the form of an extension of Mobile IP's handoff algorithm. Our solution involves the exploitation of mobility prediction to predict a mobile terminal's future location based on its previous history (i.e. the last cell that it has been in) and for the media stream to be already present and cached by next cells base station ready for receiving by the mobile dev ...

25 Adaptive disk spin—down for mobile computers
David P. Helmbold, Darrell D. E. Long, Tracey L. Sconyers, Bruce Sherrod
December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

Additional Information: full citation, abstract, index terms

We address the problem of deciding when to spin down the disk of a mobile computer in order to extend battery life. One of the most critical resources in mobile computing environments is battery life, and good energy conservation methods increase the utility of mobile systems. We use a simple and efficient algorithm based on machine learning techniques that has excellent performance. Using trace data, the algorithm outperforms several methods that are theoretically optimal under various wor ...

26 Linux on Mobile Computers: Taking your Linux workstation wherever you go.
Kenneth E. Harker
June 1996 **Linux Journal**

Full text available: html(23.49 KB) Additional Information: full citation, index terms

27 Intelligent file hoarding for mobile computers
Carl Tait, Hui Lei, Swarup Acharya, Henry Chang
December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**

Full text available: pdf(973.00 KB) Additional Information: full citation, references, citings, index terms

28 Location-aware query processing in mobile database systems
Hans-Erich Kottkamp, Olaf Zukunft
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

Full text available: pdf(772.70 KB) Additional Information: full citation, references, citings, index terms

Keywords: location-aware queries, mobile computing, mobile database, query processing

29 Non-invasive adaptation of black-box user interfaces
D. Rose, S. Stegmaier, G. Reina, D. Weiskopf, T. Ertl
February 2003 **Proceedings of the Fourth Australian user interface conference on User interfaces 2003 - Volume 18**

Full text available: pdf(3.62 MB) Additional Information: full citation, abstract, references, index terms

In this paper a new method for the non-invasive adaptation of user interfaces is presented. The main idea is not to implement the user interface toolkit as an API, but instead as an object file that redefines the functionality of the API of an already existing toolkit in a generic way based on a so-called preloading technique. Compared to common approaches, the presented method allows us to evaluate prototypical user interfaces with a large number of real-world applications with very little effo ...

Keywords: UI evaluation, UI prototyping, UI retargeting, menu navigation, user interfaces

30 Context-sensitive mobile database summarisation

Darin Chan, John F. Roddick

February 2003 **Proceedings of the twenty-sixth Australasian computer science conference on Conference in research and practice in information technology - Volume 16**

Full text available: pdf(265.23 KB) Additional Information: full citation, abstract, references, index terms

In mobile computing environments, as a result of the reduced capacity of local storage, it is commonly not feasible to replicate entire datasets on each mobile unit. In addition, reliable, secure and economical access to central servers is not always possible. Moreover, since mobile computers are designed to be portable, they are also physically small and thus often unable to hold or process the large amounts of data held in centralised databases. As many systems are only as useful as the data t ...

31 Section 06: objects in space: Wear, point, and tilt: designing support for mobile service and maintenance in industrial settings

Daniel Fallman

June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available: pdf(2.44 MB) Additional Information: full citation, abstract, references, index terms

Through theoretical influences, particularly drawing on the phenomenological notion of embodiment, and through the findings of an ethnographic study of the work practice of service technicians at two industrial assembly manufacturing units, we present the philosophy behind and practice in designing a mobile support system for real-life application. In this particular setting, we have come to question both the usefulness of the currently available and applied styles of interaction, and the role s ...

Keywords: design, embodiment, interaction, mobile computing, pointing, tilt

32 Mobile computing in a hospital: the WARD-IN-HAND project

M. Ancona, G. Dodero, F. Minuto, M. Guida, V. Gianuzzi

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: pdf(244.60 KB) Additional Information: full citation, references, index terms

Keywords: electronic patient record, mobile computing, wireless LAN

33 PRO-MOTION: management of mobile transactions

Gary D. Walborn, Panos K. Chrysanthis

April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

Full text available: pdf(826.18 KB) Additional Information: full citation, references, citings, index terms

Keywords: data caching, mobile computing, semantics-based concurrency control, transaction processing

34 Mobile agents for enabling mobile user aware applications
Akhil Sahai, Christine Morin
May 1998 **Proceedings of the second international conference on Autonomous agents**

Full text available: pdf(904.86 KB) Additional Information: full citation, references, citings, index terms

Keywords: Java, mobile agents, mobile computing

35 Power awareness: A docked-aware storage architecture for mobile computing
Christopher R. LaRosa, Mark W. Bailey
April 2004 **Proceedings of the first conference on computing frontiers on Computing frontiers**

Full text available: pdf(179.38 KB) Additional Information: full citation, abstract, references, index terms

We explore how the power-abundant docked state of mobile devices can be exploited to reduce power consumption during mobile operation and expand the capabilities of portable devices. We propose a storage hierarchy, which includes a hard disk, a large low-power cache, and a docked-aware file system that lowers the average power cost of file access from the disk while retaining the storage capacity of the disk. We investigate how hoarding files in low-power memory during a power-abundant docked st ...

Keywords: battery life, caching, docked, energy, file system, handheld, hoarding, palmtop, power

36 Energy-aware adaptation for mobile applications
Jason Flinn, M. Satyanarayanan
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5

Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we demonstrate that a collaborative relationship between the operating system and applications can be used to meet user-specified goals for battery duration. We first show how applications can dynamically modify their behavior to conserve energy. We then show how the Linux operating system can guide such adaptation to yield a battery-life of desired duration. By monitoring energy supply and demand, it is able to select the correct tradeoff between energy conservation and applicati ...

37 Mobile computing in outdoor environments (extended abstract)
Massimo Ancona, Gabriella Dodero, Vittoria Gianuzzi
February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

Full text available: pdf(407.86 KB) Additional Information: full citation, references, citings, index terms

38 Transaction processing in PRO-MOTION
Gary D. Walborn, Panos K. Chrysanthis
February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**
Full text available: pdf(1.28 MB) Additional Information: full citation, references, index terms

Keywords: commit processing, data caching, disconnected database operations, mobile transactions

39 A dynamic disk spin-down technique for mobile computing
David P. Helmbold, Darrell D. E. Long, Bruce Sherrod
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**
Full text available: pdf(1.46 MB) Additional Information: full citation, references, citings, index terms

40 Rover: a toolkit for mobile information access
A. D. Joseph, A. F. de Lespinasse, J. A. Tauber, D. K. Gifford, M. F. Kaashoek
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5
Full text available: pdf(2.18 MB) Additional Information: full citation, references, citings, index terms